

José Luis Guerrero Zafra

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PROFESSIONAL SUMMARY

Computer Engineer with **10+ years of software engineering experience**, specializing in **backend development, distributed systems, and FinTech/payment platforms**.

Currently working as a **Backend Software Engineer and deputy to the Operations Engineering Team Lead**, developing and operating financial services processing **Visa and Mastercard transactions, ATM operations, RIA remittances, payroll, reconciliation, and regulatory reporting** for international clients.

Experienced in designing and operating **reliable, high-throughput backend systems**, with a strong focus on **distributed processing, asynchronous architectures, concurrency, fault tolerance, data consistency, observability, and secure software development**. Proven ability to lead technical initiatives, troubleshoot production systems, improve system performance, and deliver resilient services in complex financial environments.

PROFESSIONAL EXPERIENCE

Uncover Labs by [Xauen.io](#) | Remote

November 2025 - Present

Software Engineer

- **Act as deputy to the Operations Engineering Team Lead**, taking ownership of technical and operational matters, coordinating priorities, resolving incidents, and collaborating directly with international clients.
- Designed and implemented an **asynchronous, queue-based architecture using Amazon MQ/RabbitMQ** to decouple payment microservices and enable reliable background processing, improving system scalability, resilience, and service independence.
- Led the migration of the platform's **Flask microservices to FastAPI**, while restructuring repositories and reducing technical debt through standardized project architecture and development practices.
- **Established a branching and release workflow across microservice repositories and Jenkins pipelines**, improving deployment management and enabling more reliable promotion of changes across development, staging, and production environments.
- Developed and maintained **Visa and Mastercard transaction reconciliation processes**, reconciling transaction data across **authorization, clearing, and settlement flows** for high-volume card operations.
- Built and integrated a **RIA remittance REST API** and a payroll processing pipeline with asynchronous callback confirmation, reconciliation, and fallback persistence. **Python, Pydantic**.
- Hardened card-transaction and scheduled services against **race conditions and concurrency issues** using Elasticsearch optimistic locking, timing-attack-safe comparisons, and global rate limiting.

Akuda Cybersecurity | Madrid (Remote)

June 2025 - November 2025

Software Engineer

- Designed and developed the **MVP** of a **SIEM** platform with **AI** integration, integrating APIs of open source and private tools in the **backend** and a friendly **frontend** for a non technical user, aiming at a cost and performance balance for medium size companies. **Docker, Wazuh, Suricata, OpenSearch, Watchguard EDR, ESET EDR, Google Gemini, React, Typescript, Express, Node.js, MongoDB, MySQL**.
- Developed a licensing platform based on Public-Key Cryptography Standards. **Express, JWT**.

- Standardization of diverse junior profiles improving his knowledge in cybersecurity and autonomy working with the integrated platform tools.

Jtsec Beyond IT Security | Granada

June 2024 - June 2025

Cybersecurity Consultant

- Conducted Common Criteria evaluations on EAL6 assurance level, focusing on test design and execution for secure critical systems collaborating in an **international environment**.
- Planned and developed the creation of a knowledge base for the **ICCC 2024 in Qatar** using **scraping** techniques with **Python**.

Logitecno SL | Andújar, Jaén

March 2015 - March 2023

Full Stack Developer

- Led the development of multiple projects for the restaurant sector using **Java**, **Android**, **Node.js**, and **PL/SQL**.
- Collaborated on the **redesign and migration** of a franchise's database architecture to a decentralized model, adapting their sales system to a web-based solution working with more than 90 endpoints along the country. **MySQL**, **Redis**, **Docker**
- Integrated **Redsys** and **Paytef** payment gateways, including certification acquisition and compliance.
- Developed a hotel management solution for military use, deployed in a private and isolated environment using **Android**, **Node.js**, and **SQLite**.
- Led the integration of **fiscal printers** into third-party software for Italian clients, ensuring **regulatory compliance**.
- Managed **AWS EC2** instances and on-premise **Debian**-based servers

PROJECTS

2FA TOUCH PROTOTYPE | FINAL DEGREE PROJECT

Present

- Designed and developed an alternative unlock screen method for touch devices based on rhythms, based in **Android**, **React**, **Node.js**, **Express**, **Docker**.
- Studied the **viability** of the implementation aiming for functional diversity people and hostile environments.

EDUCATION

University of Jaén

Master's Degree in Computer Security

Present

University Degree in Computer Engineering

Present

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Higher Education Degree in MultiPlatform Application Development

2013 - 2015

TECHNICAL SKILLS

- **Programming:** Python, JavaScript, Java, Node.js, PL/SQL
- **Backend:** FastAPI, Flask, Express.js, REST APIs, Microservices, Asynchronous Processing
- **AWS:** EC2, S3, Lambda, SQS, Amazon MQ, Secrets Manager
- **Databases & Search:** Elasticsearch, MySQL, MongoDB, Redis, SQLite
- **DevOps & CI/CD:** Docker, Jenkins, GitHub, Linux/Debian, CI/CD, Deployment Automation
- **Observability:** ELK Stack, OpenSearch
- **Architecture:** Distributed Systems, Message Queues, Concurrency, Fault Tolerance, Reconciliation
- **Security:** OWASP Top 10, MITRE ATT&CK, SAST, DAST, Penetration Testing
- **Testing & Quality:** Unit Testing, Integration Testing, SonarQube, OWASP ZAP, Selenium
- **Other:** SQL Modeling, Database Design & Optimization, Scrapy, BeautifulSoup, Requests

LANGUAGES

- **Spanish: Native**
- **English: Professional Proficiency (Aptis B2 Level English Certificate - 2023)**

CERTIFICATIONS

- **eLearnSecurity Junior Penetration Tester (eJPT) – INE Security (April 2025)**